



National Estuarine Research Reserves

Socio-economic
Pilot Project

March 2004



Applications of Demographic and Socioeconomic Data

2004 Annual Ocean and Coastal Program Managers Meeting

National Estuarine Research Reserve System

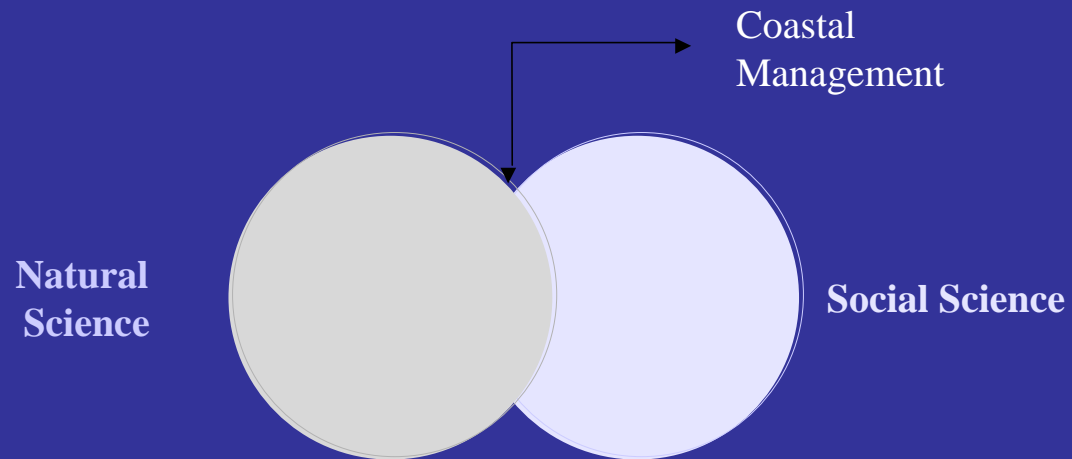
Overview:

- Why is socioeconomic data so important to the NERRS?
- How did the NERRS serve as a pilot for the STICS website?
- What are the next steps for the NERRS?



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Social Science in Coastal Management



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National Opportunities:

- Guide national priorities for education, training, stewardship research and monitoring
- Inform coastal management policy
- Attract interdisciplinary research



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Local Benefit :

Baseline knowledge to
inform programming:

- education
- coastal training program
- research topics that are a community priority
- outreach and volunteer efforts
- attract local and regional partners



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NERRS Pilot STICS:

- To provide feedback on the website from coastal managers
- To give coastal managers access to important local information
- To determine if there are commonalities that may merit national attention



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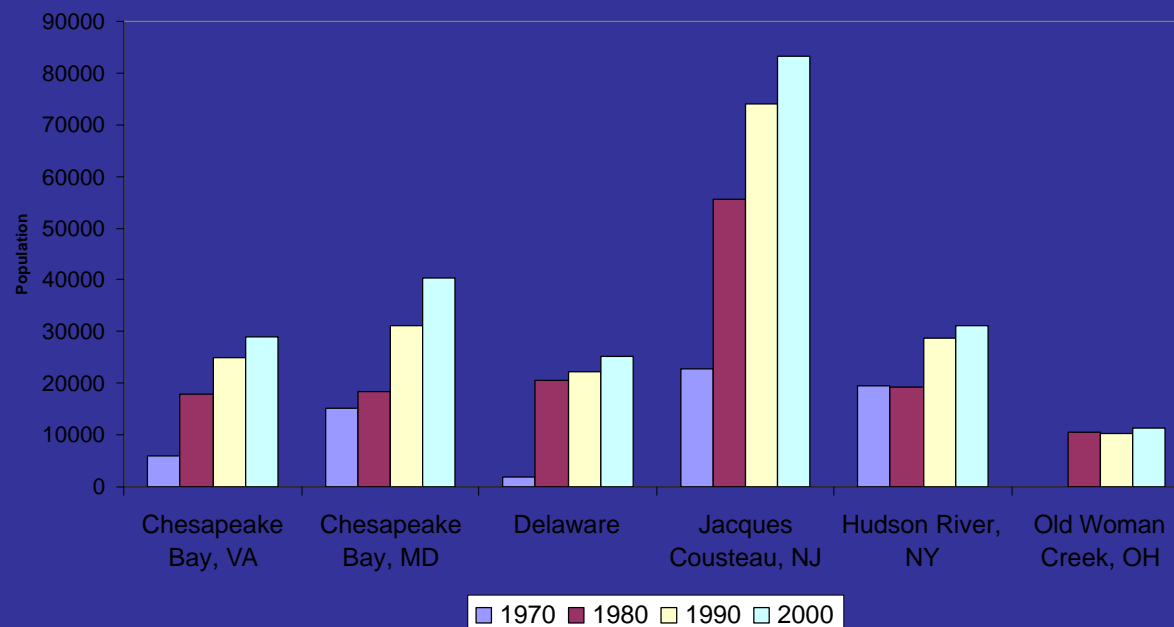
Pilot Process:

- National population trends obtained
- Four pilot reserves selected for additional detail
- Managers select variables of interest
- Managers select geographies of interest
- Deliver products to managers
- Solicit feedback on products and website



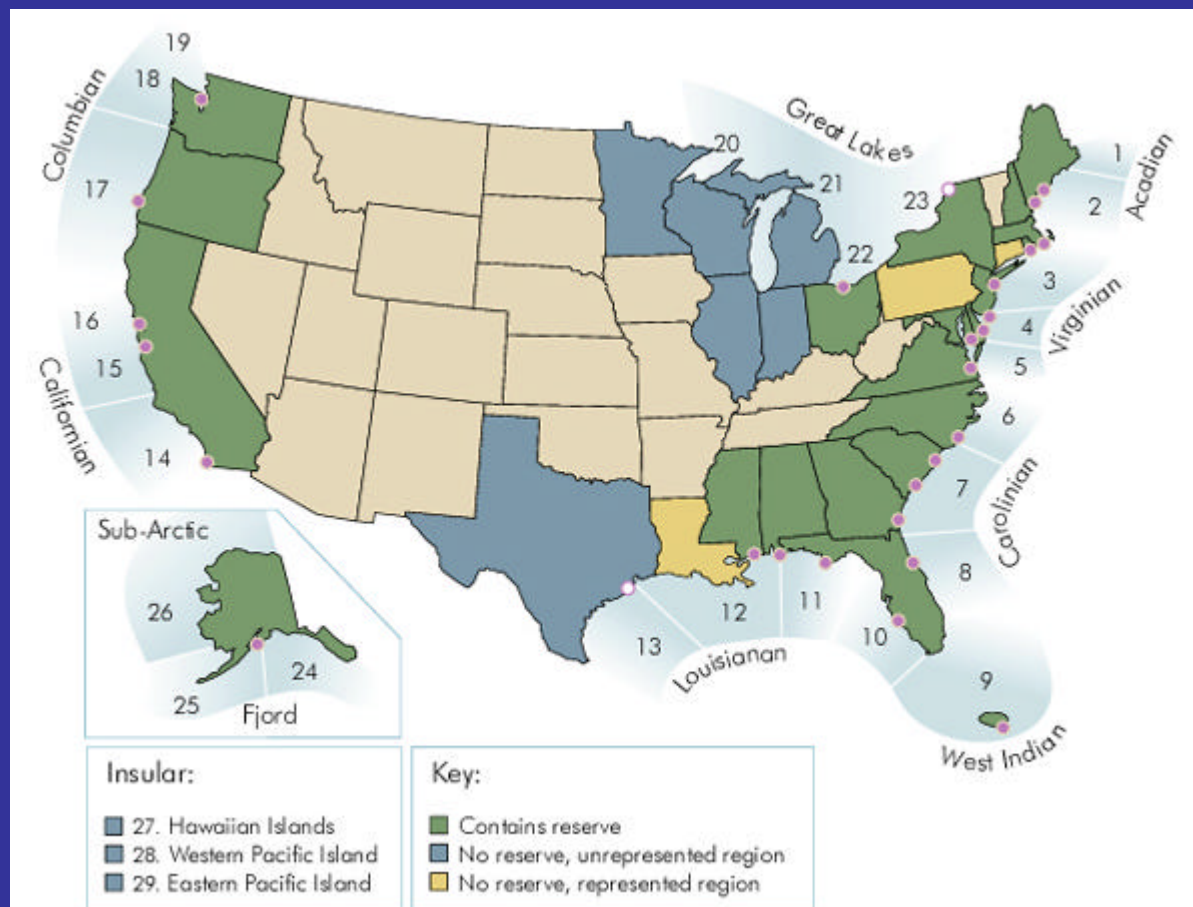
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Middle Atlantic and Great Lakes NERRs Population Trends (1970-2000)



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Case Study: Apalachicola, Florida

Area of Interest:

- Apalachicola River, Chatahoochee River, and Flint River watersheds
- Counties that are adjacent to these watersheds
- Municipal boundaries within these boundaries



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Case Study: Apalachicola Florida

Variables of Interest:

Total Population

Urban vs. Nonurban pop.

Rural farm pop.

Rural non farm pop.

Age structure

Family income

Education

Occupation

Industry

Poverty status

Housing Type

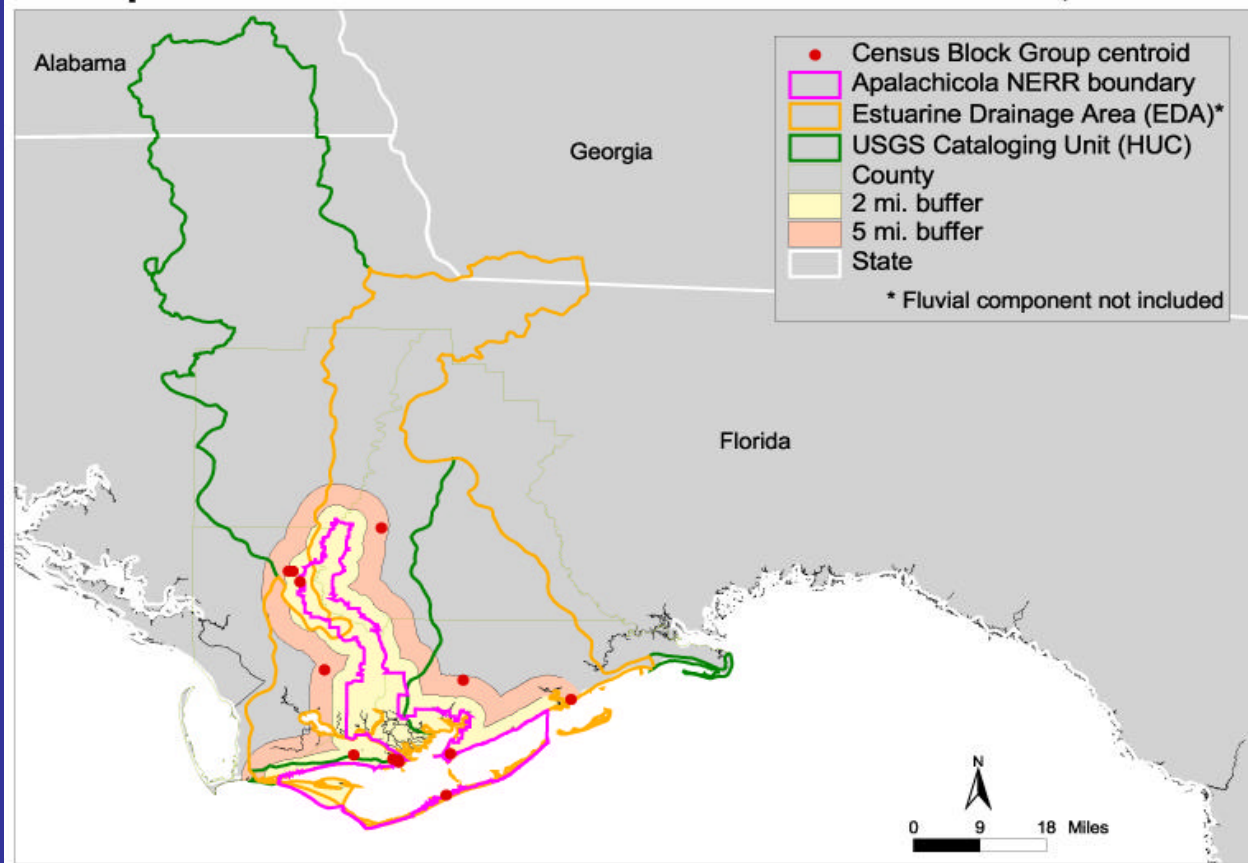
Housing location



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Apalachicola National Estuarine Research Reserve, 2000



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Case Study: Waquoit Bay

Area of Interest:

- State of Massachusetts
- Cape Cod
- Watershed and sub-watershed
- County
- 2 mile and 5 mile buffer surrounding reserve



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Case Study: Waquoit Bay

Variables of Interest:

Population

Age

Owner Occupied

Tenure

Housing Type

Housing Age

Fuel type

Income

Automobiles per home



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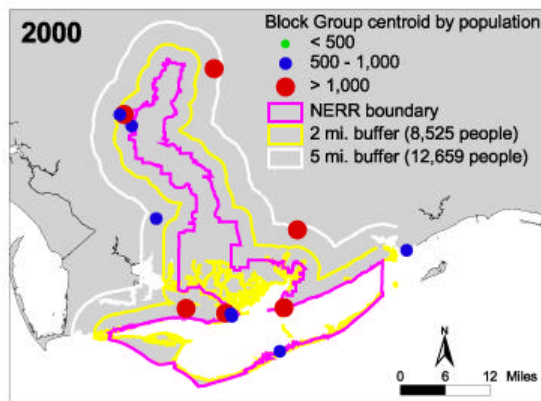
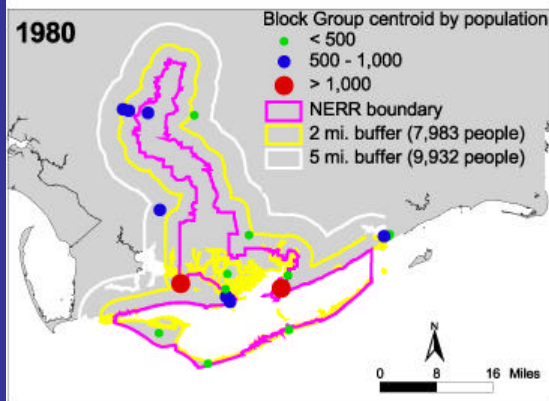
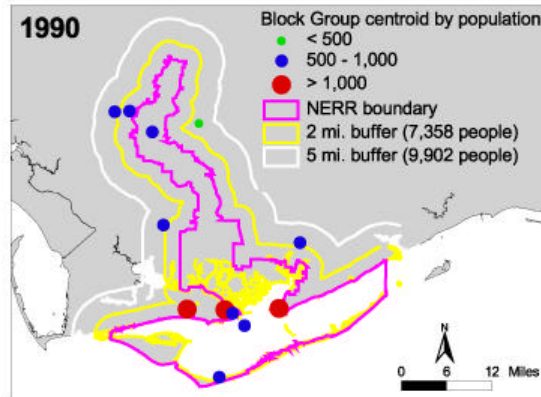
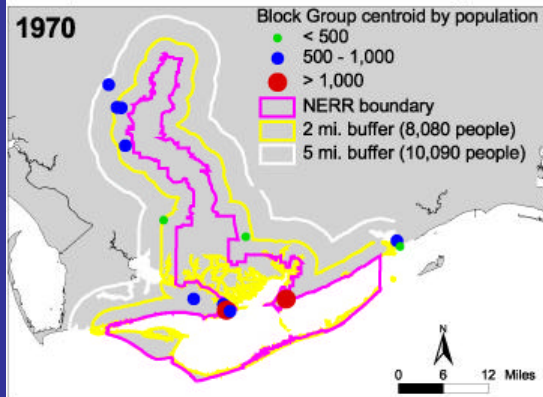
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Product Delivery:

- Excel files with each year, geography, and census variable
- All information given to every reserve
- Website access to download GIS maps with associated data
- Preliminary analysis



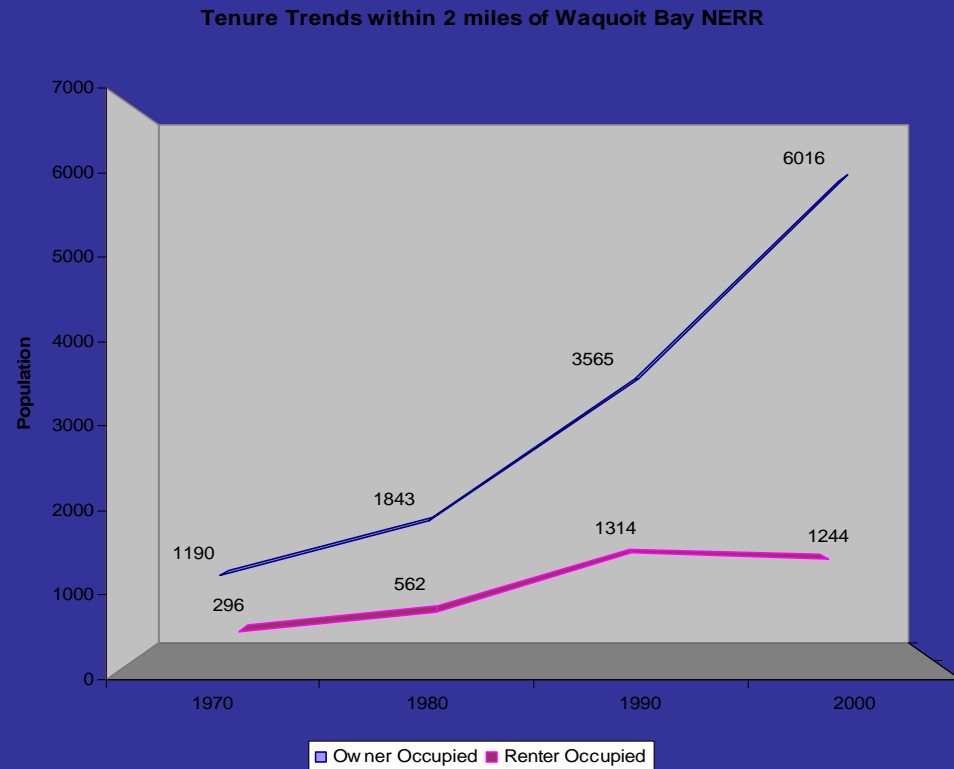
Population within and around Apalachicola National Estuarine Research Reserve



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Tenure trends within 2 miles of Waquoit Bay: renter vs. owner occupied



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Next Steps:

Pilot sites

- Provide feedback on website and products
- Experiment applying data to local issues
- Consolidate feedback on most useful variables, geographies, time scales



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Next Steps:

National

- Assist Special Projects Office in website development
- Determine if some variables are of national interest to the NERRS
- Work with Special Projects to develop NERRS specific web tools
- Examine priority areas for social science and interdisciplinary research

